

In the Claims

CLAIMS

1. (Currently amended) A method of joining together a multiplicity of optical elements on a basic body, comprising:

positioning a plurality of individual optical elements on a basic body; and

connecting the plurality of the individual optical elements to the basic body by a galvanoplastic joining technique;

wherein the optical elements comprise mirror facets; and

wherein the mirror facets comprise copper.

2. (Original) The method as claimed in claim 1, wherein the basic body is galvanically formed.

Claim 3 (Canceled).

4. (Currently amended) The method as claimed in claim ~~3~~ 1, wherein the mirror facets are used for beam mixing and field imaging for an EUV lighting system.

Claims 5-21 (Canceled).

22. (Previously presented) The method as claimed in claim 1 wherein the positioning comprises providing a number of the optical elements ranging from 200 to 300 optical elements.

23. (Currently amended) The method as claimed in claim 3 1 further comprising polishing the mirror facets to a surface quality ranging from 0.2 to 0.3 nm RMS.

Claim 24 (Canceled).

25. (Currently amended) The method as claimed in claim 3 1 wherein the mirror facets comprise copper coated with nickel.

Claims 26-27 (Canceled).

28. (Previously presented) The method as claimed in claim 4, wherein the EUV lighting system comprises a light source, and further comprising directing the light source onto the mirror facets and to a reticle.

29. (Previously presented) The method as claimed in claim 1, wherein the connecting of the plurality of the individual optical elements form a single monolithic structure.

30. (Previously presented) The method as claimed in claim 1, further comprising providing the plurality of the individual optical elements as substantially identical optical elements with regard to optical properties.

31. (New) A method of joining together a multiplicity of optical elements on a basic body, comprising:

positioning a plurality of individual optical elements on a basic body;

connecting the plurality of the individual optical elements to the basic body by a galvanoplastic joining technique;

wherein the optical elements comprise mirror facets; and

polishing the mirror facets to a surface quality ranging from 0.2 to 0.3 nm RMS.